

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("5275150").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/03 15:09
S3	18	((("2104712") or ("9964795") or ("9010182") or ("0461124") or ("5365920") or ("2048620")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/07/03 15:16
S4	23	("1880938"   "3125091"   "4038972"   "4051834"   "4136671"   "4273104"   "4313422"   "4440149"   "4458673"   "4543945"   "4548482"   "4552126"   "4559926").PN. OR ("5365920").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/03 15:18
S6	374	126/635 or 126/684 or 126/692 or 126/693 or 126/569	US-PGPUB; USPAT	OR	OFF	2008/07/03 15:55
S7	205	solar with (collector trough heat exchang\$2) near fluid same tube	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/07/03 15:57
S8	7	S7 and S6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/07/03 15:59
S9	870	solar with (collector trough heat exchang\$2) near4 fluid same tube	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/07/03 16:01
S10	21	S6 and S9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/07/03 16:02
S11	23	("1683266"   "4171695"   "4222365"   "4234351"   "4238265"   "4337759"   "4362149"   "4422434"   "4815443"   "4947825"   "5096505"   "5118361"   "5444972"   "5850831"   "5862800"   "6421845"   "6442937"   "6476314"   "6480366"   "6531653"   "6532953"   "6557804"). PN. OR ("7055519"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/03 16:05

S12	6	("3182654"   "4057048"   "4166769").PN. OR ("4422434").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/03 16:09
S13	10	("4105014"   "4117829"   "4121564"   "4367727"   "4394869"   "4421097").PN. OR ("5245986").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/03 16:33
S14	50	(("4256091") or ("4303059") or ("4432343") or ("4586489") or ("5191875") or ("20070157923") or ("4393859") or ("4505261") or ("4815444") or ("4056090") or ("4056094") or ("4274395") or ("4423718") or ("4469088") or ("5460163") or ("5465708") or ("7240675") or ("20050139210") or ("20070095340") or ("20080087277") or ("4313426") or ("4295463") or ("4263893") or ("4286580") or ("4419984") or ("4462392") or ("4888063") or ("4015585") or ("4173214") or ("4410757") or ("4912614") or ("5010873") or ("5934271") or ("6467916") or ("4397303") or ("4347834") or ("4243019") or ("4398053") or ("4249520") or ("4325360") or ("5191876") or ("4270520") or ("4296737") or ("4333447") or ("4340034") or ("4355630") or ("4361136") or ("4421104") or	US-PGPUB; USPAT	OR	OFF	2008/07/03 16:36

		("4465057") or ("4516018")).PN.				
S16	6	((("4586489") or ("4416264") or ("4414812") or ("4220136") or ("4346694") or ("4210463")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/21 18:22
S17	11	("3866285"   "3875925"   "4072141"   "4082082"   "4091793"   "4116225"   "4119083"   "4129117"   "4144875"   "4212292"   "4304223").PN. OR ("4416264").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/22 08:35
S18	7	("4094146"   "4189922"). PN. OR ("4414812"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/22 08:44
S19	12	("1661473"   "3923038"   "4153039"   "4214572"   "4217882"   "4296735"   "4320246"   "4505260"   "4909316"   "4911144"). PN. OR ("5465708"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/22 09:10
S20	12	("4094299"   "4134393"   "4143643"   "4249516"   "4289118"   "4320246"   "4505260"   "4520794"   "4680090"   "5177977"   "5465708"   "5505917"). PN. OR ("5860414"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/22 09:20
S21	3	"9010182"	EPO; JPO; DERWENT	OR	OFF	2009/05/01 09:14
S22	429	126/635 or 126/684 or 126/692 or 126/693 or 126/569	US-PGPUB; USPAT	OR	OFF	2009/05/01 09:17
S23	936	solar with (collector trough heat exchang\$2) near4 fluid same tube	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/05/01 09:48
S24	31	S22 and S23	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/01 09:49
S25	22	("1081098"   "3125091"   "4249516"   "4289119"   "4341204").PN. OR ("4505260").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/01 10:22
S27	1	("20070157923").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/01 10:46
S29	92951	(expand\$3 expasion contract\$4) with (tube\$1 pipe\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/04 11:35

S30	6383	S29 with (rotate\$2 rotating turn\$3 spin\$2 spinning roller)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 11:36
S31	429	126/635 or 126/684 or 126/692 or 126/693 or 126/569	US-PGPUB; USPAT	OR	OFF	2009/05/04 11:37
S32	4	S30 and S31	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 11:37
S33	0	S30 and 126/635.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 11:44
S34	1	S30 and 126/704.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 11:45
S35	4	("4106485"   "4203426"   "6632542"   "6783653"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 11:49
S36	22617	S29 same (rotate\$2 rotating turn\$3 spin\$2 spinning roller)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 12:27
S37	61220	S29 and (rotate\$2 rotating turn\$3 spin\$2 spinning roller)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 12:28
S38	52	S30 and "126"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 12:28
S39	2	((("4203426") or ("4106485")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 12:40
S40	0	"2005003646"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 12:43
S41	5	"2005003646"	EPO; JPO; DERWENT	OR	OFF	2009/05/04 12:43
S42	0	"0815401"	EPO; JPO; DERWENT	OR	OFF	2009/05/04 12:44
S43	7	"815401"	EPO; JPO; DERWENT	OR	OFF	2009/05/04 12:44
S44	12	"1056978"	EPO; JPO; DERWENT	OR	OFF	2009/05/04 12:45
S45	1	("6349718").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 12:49
S46	8	("3861379"   "4159710"   "4229076"   "4730602"   "5374317"   "5899199"). PN. OR ("6349718"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 12:49
S47	633	S37 and "126"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 12:57
S48	17	("2969788"   "3991741"   "4027653"   "4132223"   "4144095").PN. OR ("4210463").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 13:12

S49	72	S29 with (rotate\$2 rotating turn\$3 spin\$2 spinning roller) and solar	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 13:23
S50	1482	S29 with (rotate\$2 rotating turn\$3 spin\$2 spinning roller) and (solar light)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 13:26
S51	18	S29 with (rotate\$2 rotating turn\$3 spin\$2 spinning roller) near4 (solar light)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 13:26
S52	1	S30 and 126/692.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 13:50
S53	2	S30 and 126/696.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 13:50
S54	22	("1691934"   "1702058"   "1825666"   "1972100"   "3665893"   "4059075"   "4240234"   "4289114"   "4304216"   "4400946"). PN. OR ("4512336"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 14:19
S55	11	("3866285"   "3875925"   "4072141"   "4082082"   "4091793"   "4116225"   "4119083"   "4129117"   "4144875"   "4212292"   "4304223"). PN. OR ("4416264"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 14:24
S56	4510	(pipe\$1 tube\$1) near5 support\$3 near45 roller \$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/05/04 16:39
S57	7	S56 and "126"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 16:42
S58	17	S56 and "122"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 16:42
S59	92951	(expand\$3 expansion contract\$4) with (tube\$1 pipe\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/04 16:47
S60	36862	S59 and (rotate\$2 rotating roller)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 16:47
S61	125998	(expand\$3 expansion contract\$4) with (tube\$1 pipe\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/04 16:50
S62	421	S61 and (rotate\$2 rotating roller) and "126"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 16:51
S63	408	S61 and (rotate\$2 rotating roller) and "122"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 17:12

S64	13968	S61 and (rotate\$2 rotating roller) and (solar light)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/04 17:18
S65	457	S61 and (rotate\$2 rotating roller) near4 (solar light)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/05/04 17:19
S66	36862	S59 and (rotate\$2 rotating roller)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 17:38
S67	275	S66 and "126"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 17:40
S68	3	((("20060157050") or ("6302099") or ("6058930")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/12 09:01
S69	4	((("6065223") or ("5191875") or ("4934324") or ("4823772")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/12 09:17
S70	1	("4356616").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/12 09:57
S71	4	((("4365616") or ("4585059") or ("4823772") or ("4934324")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/12 10:00
S72	4	("1651052").PN.	EPO; JPO; DERWENT	OR	OFF	2009/05/13 08:53
S73	0	("0669838").PN.	EPO; JPO; DERWENT	OR	OFF	2009/05/13 09:04
S75	257	126/704.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/04 08:29
S76	10	("1258405"   "4059094"   "4088120"   "4281642"   "5167218").PN. OR ("5275150").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/04 08:41
S77	22	("1345758"   "3125091"   "4011858"   "4084577"   "4091793"   "4094300"   "4119085"   "4129119"   "4144931"   "4148296"   "4149523"   "4151828"   "4162093"   "4222372"   "Re29833").PN. OR ("4279242").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/04 09:17
S78	21	("3545534"   "3677339"   "3854529"   "3998268"   "4010796"   "4105067"   "4231421").PN. OR ("4337827").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/17 16:40
S79	2	("3026858").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/17 16:46

S80	97824	(expand\$3 expasion contract\$4) with (tube\$1 pipe\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/15 11:13
S81	39118	S80 and (rotate\$2 rotating roller)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/15 11:13
S83	286	S81 and "126"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/15 11:13
S84	27	("1880938"   "3125091"   "4038972"   "4051834"   "4136671"   "4273104"   "4313422"   "4440149"   "4458673"   "4543945"   "4548482"   "4552126"   "4559926").PN. OR ("5365920").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/15 11:49
S85	14	("1661473"   "3923038"   "4153039"   "4214572"   "4217882"   "4296735"   "4320246"   "4505260"   "4909316"   "4911144"). PN. OR ("5465708"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/07/15 12:04
S86	97824	(expand\$3 expasion contract\$4) with (tube\$1 pipe\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/15 13:14
S87	81	S86 with (rotate\$2 rotating turn\$3 spin\$2 spinning roller) and solar	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/15 13:14

7/ 19/ 2010 2:29:36 PM

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Tube Solar Collector Structure.wsp